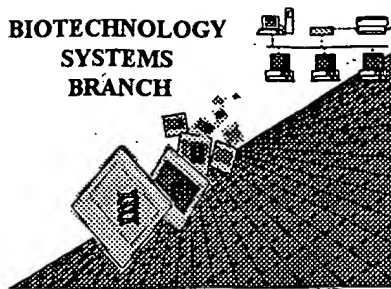


BEST AVAILABLE COPY

RAW SEQUENCE LISTING
ERROR REPORT

BIOTECHNOLOGY
SYSTEMS
BRANCH



11/16
RECEIVED.
JAN 31 2002
TECH CENTER 1600/2900

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/847,102
Source: 1646
Date Processed by STIC: 1/23/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom, including:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)

2. U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202

3. Hand Carry directly to:

U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name,
Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202

Or

U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two,
2011 South Clark Place, Arlington, VA 22202

4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office,
Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 09/847,102

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics
 Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 Misaligned Amino
 Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0
 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 Skipped Sequences
 (OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
 (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped

 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 Skipped Sequences
 (NEW RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.
 <210> sequence id number
 <400> sequence id number
 000
- 9 Use of n's or Xaa's
 (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
 Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
 In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10 Invalid <213>
 Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 Use of <220> Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.
 Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
 (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0
 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.



1646

RAW SEQUENCE LISTING

DATE: 01/23/2002

PATENT APPLICATION: US/09/847,102

TIME: 09:48:57

Input Set : D:\22000-20629.txt

Output Set: N:\CRF3\01222002\I847102.raw

**Does Not Comply
Corrected Diskette Needed**

4 <110> APPLICANT: University of California
 5 Carson, Dennis A.
 6 Corr, Maripat
 7 Rhee, Chae-Seo
 8 Lorenzo, Leoni M.
 9 Malini, Sen
 11 <120> TITLE OF INVENTION: IMMUNOLOGIC COMPOSITIONS AND METHODS FOR
 12 STUDYING AND TREATING CANCERS EXPRESSING FRIZZLED ANTIGENS
 15 <130> FILE REFERENCE: 22000-20629.00
 17 <140> CURRENT APPLICATION NUMBER: 09/847,102
 18 <141> CURRENT FILING DATE: 2001-05-01
 20 <160> NUMBER OF SEQ ID NOS: 138
 22 <170> SOFTWARE: FastSEQ for Windows Version 4.0

ERRORED SEQUENCES

2495 <210> SEQ ID NO: 60
 2496 <211> LENGTH: 581
 2497 <212> TYPE: PRT
 2498 <213> ORGANISM: Homo sapiens
 2500 <400> SEQUENCE: 60
 2501 Met Gln Arg Pro Gly Pro Arg Leu Trp Leu Val Leu Gln Val Met Gly
 2502 1 5 10 15
 2503 Ser Cys Ala Ala Ile Ser Ser Met Asp Met Glu Arg Pro Gly Asp Gly
 2504 20 25 30
 2505 Lys Cys Gln Pro Ile Glu Ile Pro Met Cys Lys Asp Ile Gly Tyr Asn
 2506 35 40 45
 2507 Met Thr Arg Met Pro Asn Leu Met Gly His Glu Asn Gln Arg Glu Ala
 2508 50 55 60
 2509 Ala Ile Gln Leu His Glu Phe Ala Pro Leu Val Glu Tyr Gly Cys His
 2510 65 70 75 80
 2511 Gly His Leu Arg Phe Phe Leu Cys Ser Leu Tyr Ala Pro Met Cys Thr
 2512 85 90 95
 2513 Glu Gln Val Ser Thr Pro Ile Pro Ala Cys Arg Val Met Cys Glu Gln
 2514 100 105 110
 2515 Ala Arg Leu Lys Cys Ser Pro Ile Met Glu Gln Phe Asn Phe Lys Trp
 2516 115 120 125
 2517 Pro Asp Ser Leu Asp Cys Arg Lys Leu Pro Asn Lys Asn Asp Pro Asn
 2518 130 135 140
 2519 Tyr Leu Cys Met Glu Ala Pro Asn Asn Gly Ser Asp Glu Pro Thr Arg
 2520 145 150 155 160
 2521 Gly Ser Gly Leu Phe Pro Pro Leu Phe Arg Pro Gln Arg Pro His Ser

RAW SEQUENCE LISTING

DATE: 01/23/2002

PATENT APPLICATION: US/09/847,102

TIME: 09:48:58

Input Set : D:\22000-20629.txt

Output Set: N:\CRF3\01222002\I847102.raw

2522				165				170				175				
2523	Ala	Gln	Glu	His	Pro	Leu	Lys	Asp	Gly	Gly	Pro	Gly	Arg	Gly	Gly	Cys
2524				180					185				190			
2525	Asp	Asn	Pro	Gly	Lys	Phe	His	His	Val	Glu	Lys	Ser	Ala	Ser	Cys	Ala
2526				195				200					205			
2527	Pro	Leu	Cys	Thr	Pro	Gly	Val	Asp	Val	Tyr	Trp	Ser	Arg	Glu	Asp	Lys
2528		210					215					220				
2529	Arg	Phe	Ala	Val	Val	Trp	Leu	Ala	Ile	Trp	Ala	Val	Leu	Cys	Phe	Phe
2530	225					230					235				240	
2531	Ser	Ser	Ala	Phe	Thr	Val	Leu	Thr	Phe	Leu	Ile	Asp	Pro	Ala	Arg	Phe
2532				245						250					255	
2533	Arg	Tyr	Pro	Glu	Arg	Pro	Ile	Ile	Phe	Leu	Ser	Met	Cys	Tyr	Cys	Val
2534				260					265					270		
2535	Tyr	Ser	Val	Gly	Tyr	Leu	Ile	Arg	Leu	Phe	Ala	Gly	Ala	Glu	Ser	Ile
2536			275					280					285			
2537	Ala	Cys	Asp	Arg	Asp	Ser	Gly	Gln	Leu	Tyr	Val	Ile	Gln	Glu	Gly	Leu
2538		290					295					300				
2539	Glu	Ser	Thr	Gly	Cys	Thr	Leu	Val	Phe	Leu	Val	Leu	Tyr	Tyr	Phe	Gly
2540	305					310					315				320	
2541	Met	Ala	Ser	Ser	Leu	Trp	Trp	Val	Val	Leu	Thr	Leu	Thr	Trp	Phe	Leu
2542				325						330					335	
2543	Ala	Ala	Gly	Lys	Lys	Trp	Gly	His	Glu	Ala	Ile	Glu	Ala	Asn	Ser	Ser
2544				340					345					350		
2545	Tyr	Phe	His	Leu	Ala	Ala	Trp	Ala	Ile	Pro	Ala	Val	Lys	Thr	Ile	Leu
2546			355					360					365			
2547	Ile	Leu	Val	Met	Arg	Arg	Val	Ala	Gly	Asp	Glu	Leu	Thr	Gly	Val	Cys
2548		370					375					380				
2549	Tyr	Val	Gly	Ser	Met	Asp	Val	Asn	Ala	Leu	Thr	Gly	Phe	Val	Leu	Ile
2550	385					390					395				400	
2551	Pro	Leu	Ala	Cys	Tyr	Leu	Val	Ile	Gly	Thr	Ser	Phe	Ile	Leu	Ser	Gly
2552				405						410					415	
2553	Phe	Val	Ala	Leu	Phe	His	Ile	Arg	Arg	Val	Met	Lys	Thr	Gly	Gly	Glu
2554				420					425					430		
2555	Asn	Thr	Asp	Lys	Leu	Glu	Lys	Leu	Met	Val	Arg	Ile	Gly	Leu	Phe	Ser
2556			435					440					445			
E--> 2557	Val	Leu	Tyr	Thr	Val	Pro	Ala	Thr	Cys	Val	Ile	Ala	Cys	Tyr	Phe	Xaa
2558		450					455					460				
2559	Glu	His	Leu	Asn	Met	Asp	Tyr	Trp	Lys	Ile	Leu	Ala	Ala	Gln	His	Lys
2560	465					470					475				480	
2561	Cys	Lys	Met	Asn	Asn	Gln	Thr	Lys	Thr	Leu	Asp	Cys	Leu	Met	Ala	Ala
2562				485						490					495	
2563	Ser	Ile	Pro	Ala	Val	Glu	Ile	Phe	Met	Val	Lys	Ile	Phe	Met	Leu	Leu
2564				500						505				510		
2565	Val	Val	Gly	Ile	Thr	Ser	Gly	Met	Trp	Ile	Trp	Thr	Ser	Lys	Thr	Leu
2566			515					520					525			
2567	Gln	Ser	Trp	Gln	Gln	Val	Cys	Ser	Arg	Arg	Leu	Lys	Lys	Lys	Ser	Arg
2568		530					535					540				
2569	Arg	Lys	Pro	Ala	Ser	Val	Ile	Thr	Ser	Gly	Gly	Ile	Tyr	Lys	Lys	Ala
2570	545					550					555				560	

see item 9
on Enol
Summary
Sheet

RAW SEQUENCE LISTING

DATE: 01/23/2002

PATENT APPLICATION: US/09/847,102

TIME: 09:48:58

Input Set : D:\22000-20629.txt

Output Set: N:\CRF3\01222002\I847102.raw

2571	Gln	His	Pro	Gln	Lys	Thr	His	His	Gly	Lys	Tyr	Glu	Ile	Pro	Ala	Gln
2572					565					570						575
2573	Ser	Pro	Thr	Cys	Val											
2574					580											

VERIFICATION SUMMARY

DATE: 01/23/2002

PATENT APPLICATION: US/09/847,102

TIME: 09:48:59

Input Set : D:\22000-20629.txt

Output Set: N:\CRF3\01222002\I847102.raw

L:2557 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:60